RAW SEQUENCE LISTING
ERROR REPORT
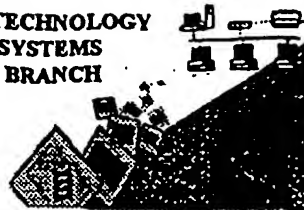
BIOTECHNOLOGY
SYSTEMS
BRANCH

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/788,898A_

Source: _1 Fwp_

Date Processed by STIC: _10/7/04_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
        http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
<u>Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:</u>

1. EFS-Bio <u>(<http://www.uspto.gov/ebc/efs/downloads/documents.htm></u>, EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: _10/788,898A_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
____Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
                        prevent "wrapping."

·2____Invalid Line Length   The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
____Numbering   use space characters, instead.

4____Non-ASCII   The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
                        ensure your subsequent submission is saved in ASCII text.

5____Variable Length   Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules,
                        each n or Xaa can only represent a single residue. Please present the maximum number of each
                        residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
____"bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
                        previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
                        the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
                        Artificial or Unknown sequences.

7____Skipped Sequences   Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
____(OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
                         (i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
                         (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
                         This sequence is intentionally skipped

                         Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
____(NEW RULES)   <210> sequence id number
                         <400> sequence id number
                         000

9____Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
____(NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
                           In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10____Invalid <213>   Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
____Response   scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
                        is Artificial Sequence

11____Use of <220>   ~~Sequence(s)_____ missing the <220> "Feature" and associated numeric identifiers and responses.~~
                        Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
                        "Unknown." Please explain source of genetic material in <220> to <223> section.
                        (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
____"bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
                        listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____Misuse of n/Xaa   "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC – Biotechnology Systems Branch – 09/09/2003

IFWO

RAW SEQUENCE LISTING   DATE: 10/07/2004
PATENT APPLICATION: US/10/788,898A   TIME: 13:48:26

Input Set : A:\SUB21973US.ST25.txt
Output Set: N:\CRF4\10072004\J788898A.raw

```
 3 <110> APPLICANT: Hunter, Cornelius G.
 5 <120> TITLE OF INVENTION: Protein Sequence Signals and Their Applications
 7 <130> FILE REFERENCE: 021973-000100US
 9 <140> CURRENT APPLICATION NUMBER: us 10/788898A
10 <141> CURRENT FILING DATE: 2004-02-26
12 <160> NUMBER OF SEQ ID NOS: 6
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 9
18 <212> TYPE: PRT
19 <213> ORGANISM: Artificial
21 <220> FEATURE:
22 <223> OTHER INFORMATION: Protein sequence signal
24 <400> SEQUENCE: 1
26 Ala Asn Ile Ser Val Tyr Tyr Glu Met
27 1               5
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 9
32 <212> TYPE: PRT
33 <213> ORGANISM: Artificial
35 <220> FEATURE:
36 <223> OTHER INFORMATION: Protein sequence signal
38 <400> SEQUENCE: 2
40 Thr Ser Phe Asn Phe Trp Met Gly Val
41 1               5
44 <210> SEQ ID NO: 3
45 <211> LENGTH: 9
46 <212> TYPE: PRT
47 <213> ORGANISM: Artificial
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Protein sequence signal
52 <400> SEQUENCE: 3
54 Ser Gly Cys Gly Leu Ile Leu Asn Cys
55 1               5
58 <210> SEQ ID NO: 4
59 <211> LENGTH: 11
60 <212> TYPE: PRT
61 <213> ORGANISM: Artificial
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Protein sequence signal
66 <400> SEQUENCE: 4
68 Pro Ala Gly Glu Gln Glu Ala Phe Pro Pro Asn
69 1               5               10
```

Does Not Comply
Corrected Diskette Needed

give source of genetic material
(see Item 11 on Exam summary sheet)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/788,898A
DATE: 10/07/2004
TIME: 13:48:26

Input Set : A:\SUB21973US.ST25.txt
Output Set: N:\CRF4\10072004\J788898A.raw

```
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 7
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Protein sequence signal
80 <400> SEQUENCE: 5
82 Ala Arg Gln Glu Leu Lys Met
83 1               5
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 8
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Protein sequence signal
94 <400> SEQUENCE: 6
96 Cys Ile Leu Met Phe Trp Tyr Val
97 1               5
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/07/2004
PATENT APPLICATION: US/10/788,898A   TIME: 13:48:27

Input Set : A:\SUB21973US.ST25.txt
Output Set: N:\CRF4\10072004\J788898A.raw

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6

VERIFICATION SUMMARY   DATE: 10/07/2004
PATENT APPLICATION: US/10/788,898A   TIME: 13:48:27

Input Set : A:\SUB21973US.ST25.txt
Output Set: N:\CRF4\10072004\J788898A.raw